A02 **Inspection certificate "3.1" (EN 10 204)**

A03 Document No.: **68990/22** Page: **1/1**

A07	Customer's Order (P.O.) No./Item No.: **060722**	A08	Manufacturer's Works Order No.: **89401/0/22**
A11	Supplier's Order No.: **3151019512**	A10	Advice - Note No.: **8150091136**
B08, B12/13	Quantity delivered: pcs / bdls: **27**; mtrs / feet: **163,701**; B13 Actual mass kgs / lbs: **5597**	A06	Customer / Consignee: **PEZOS EXPORT - IMPORT d.o.o. Rumenacki put 35 21201 RUMENKA-GRAD NOVI SAD SERBIA**
B09-11	Dimensions: **219,1 X 6,30 mm**		
B02	Steel designation: **P265GH ST45.8/I**		

B01, B03, B04 Product, conditions and terms of delivery:

Seamless Boiler,
EN 10220/02,
EN 10216-2/13 TC1+ A1/2019, DIN 17175/79, - AD-2000 Merkblatt W4/2013, PED 2014/68/EU (TÜV NORD).
ANSI/NACE MR0175/ISO 15156-15, ANSI/NACE MR0103/ISO 17945-15,
Normalized hot finished

A04, B06 Marking: Manufacturer's mark, mill inspector's stamp

LIBERTY OSTRAVA 1 2

C71-92 Heat chemical analysis (%) — C70 Steel made by basic oxygen process, fully killed, strand cast.

B07 Heat No.:	C	MN	SI	P	S	CU	NI	CR	ALt	MO				
49572K	0,16	1,17	0,219	0,013	0,006	0,11	0,04	0,04	0,037	0,006				

Z99

Test results:	MPa	MPa	% (5d)	J				HRB
B07 Heat No. C00 Specimen No. / C04 Requirements:	C11 Yield Point	C12 Tensile Strength	C13 Elongation	C40-43 Impact test	Ø	min		C30-32 Hardness
P265GH	**min. 265**	**410-570**	**min. 23**	**A) L-10-28J / -10°C**				**max. 99**
ST45.8 /I	**min. 255**	**410-530**	**min. 21**	**B) INF.: L-10 /J -20°C**				
49572K/1	**329**	**498**	**25,6**	**A) 121**	**124**	**120**	**120**	**71**
	311	**488**	**24,5**	**B) 115**	**114**	**116**	**114**	
49572K/2	**341**	**498**	**26,0**	**A) 109**	**94**	**114**	**118**	
	335	**497**	**26,9**	**B) 115**	**114**	**116**	**114**	

Z99

D01	Visual and dimensional inspection with satisfactory results	X	D51	Hydrostatic test - min. test pressure MPa / sec by the pressure up to	**8,0 / 5**
C50	Flattening test (EN ISO 8492) - satisfactory		D02	The pipes tested on tightness by NDT flux - leakage in acc. to SEP 1925-01/80, EN ISO 10893-1/11 **Rotomat DS - typ 6.720**	X
C51	Expanding test (EN ISO 8493) - satisfactory				
C52	Bending test (EN ISO 8491) - satisfactory				
C53	Ring expanding test (EN ISO 8495) - satisfactory		D03	Nondestructive Electromagnetic Testing	
C54	Ring tensile test (EN ISO 8496) - satisfactory	X			

The manufacturer has an established and certified management system according to ISO 9001:2015, ISO 14001:2015, ISO 50001:2011, ISO 45001:2018.

QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 and AD 2000-Mbl. W0 by TÜV NORD Systems GmbH & Co. KG. Welding process, personnel for welding and NDT are approved acc. to PED 2014/68/EU.
22HRC=99HRBmax.

Z01 All pipes conform to the above mentioned standards and ordering requirements and agreements.

Z02 Date of issue **16.9.2022/KA**

Tel.:++420 595683644

A01 Liberty Ostrava a.s.
A05 QA Department
Vratimovská 689/117
719 00 Ostrava-Kunčice
Czech Republic

LIBERTY
Liberty Ostrava a.s.
Vratimovská 689/117, 719 00 Ostrava - Kunčice
QA - WORKS INSPECTOR
IDENTIFICATION No. 4

Bc. Petr Pastucha
Work's Inspector
Z02 Validation

E.z. 2574/16/15/P